

Chemistry 233 Lab

Subject to Change

Instructor: Buddy G. Barnett
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OFFICE HOURS:

MW 11:00 am - 02:00 pm
MTWR 05:00 pm – 05:30 pm
TR 01:00 pm - 02:00 pm
F 11:00 am - 12:00 pm

Office visit by appointment

Course Prerequisites/Corequisites

You must have passed, or currently attend, Chem 232. If you drop Chem 232 you need **special permission** to stay in Chem 233. Please review our drop policy:
http://www.ulm.edu/chemistry/courses/drop_policy.html

Course Description

You will attend ten laboratory sessions, consisting of pre-lab, quiz and laboratory experiment. In addition, you will attend check-in (today), check-out, and a final exam. See attached pages for details. **You are expected to work alone!**

Course Topics, Objectives and Outcomes

Please review the attached list of experiments for specific topics covered in this course. These topics refer to the laboratory text (Williamson, Macroscale and Microscale Organic Experiments). You will carry out ten chemistry experiments targeting ten specific topics crucial to the understanding of organic chemistry, evaluate their results by completing written laboratory reports, and demonstrate your understanding of the practical and theoretical aspects of these experiments. See attached experiment list for specifics!

Instructional Methods and Activities

All experiments have to be carried out exclusively by you; no partner is required or permitted. See attached experiment list for specifics!

Dress code: No exposed skin from the waist down, no ultra-thin fabrics. You must wear closed, sturdy, heeled shoes that protect your feet adequately (tennis shoes are a good choice). You must wear eye protection **whenever** you are in the lab. Make sure your clothing and hairstyle is compatible with a lab environment. If you violate the dress code you will be sent home. You can easily avoid this situation by keeping some spare shoes and pants handy.

Evaluation and Grade Assignment

Tests, quizzes: Each quiz will cover mostly material from the **previous** pre-lab, as well as the book chapter corresponding to that day's experiment. Also, expect one simple, applied question relating to **today's** experiment. Bring a calculator for your quizzes and final! Quiz dates are attached.

Readings: You are expected to read your hand-outs and any assigned book chapters for the day's experiment **in advance**. Be prepared to answer questions related to the hand-outs. If you have any questions as to which material you will have to review it is your responsibility to ask.

Homework assignments: Lab reports are due one week after each experiment and have to be completed at home if necessary. I expect all lab reports to be entered into a carbon copy lab notebook.

Grading system: Your grades will be determined based on the following:

10 quizzes (20 pts each)	200 points
10 experiments (lab reports worth 10 pts each)	100 points
1 final (worth 100 pts)	<u>100 points</u>
	400 points total

Grades will be assigned based on the usual scale (A, 100-90%; B, 89-80% etc.). There will be no curving and you cannot drop any grades.

Mid-term grades: ULM requires that I post mid-term grades for you by March 9. These are merely designed to give you feed-back on your standing in class. **Mid-term grades indicate a student's status at mid-semester only and do not indicate the final performance outcome of a student!**

Class Policies and Procedures

Textbooks and materials: Williamson's *Microscale and Macroscale Organic Experiments* and any material covered by the hand-outs. Other required material: Model Kit, calculator, eye protection, proper dress code, carbon copy lab notebook.

Attendance policy: You must be present for the entire duration of all pre-labs and experiments. Any unexcused absences will result in 0 points earned for the missed report and quiz.

Make-up policy: You may miss one experiment as a consequence of an excused absence, but generally must make this up on the assigned day (see attachment). Any misses require a written excuse (e.g. from your physician).

Academic integrity: If you cheat, you will get zero points on the exam or quiz. This may happen to you even if you are a cooperating "benefactor": it is in your interest not to cooperate. If you are caught cheating on the final you will be 100 points short and usually will not be able to pass.

Course evaluation policy: Please complete the on-line course evaluation!

Student Services: Please note that the following ULM student services are available to you: Student Success Center (<http://www.ulm.edu/cass/>), Counseling Center (<http://www.ulm.edu/counselingcenter/>), Special Needs (<http://www.ulm.edu/counselingcenter/special.htm>).

Discipline, course specific policies: If your cell phone rings you may face a penalty (typically, a point loss).

Only **simple** (non-programmable) calculators are allowed or needed during exams.

Office hours and review sessions: Office hours are intended to discuss problems with your schedule,

allow you to see your quizzes, etc. You may attend my 233 review sessions if you have any problems with the theory. In practice, there usually is plenty of time to discuss your questions in lab.

Posting of exam results and answer keys: Quiz results will be posted next to my door, according to your student ID number. Copies of quizzes will be posted at <http://www.ulm.edu/~junk/coursestaught.html>.

Cancellations: Cancellations are rare. Cancelled labs should be treated as labs that were never scheduled: If your lab is cancelled, your next quiz will cover the last pre-lab before the cancellation, your lab reports will be due the following lab, your grade will be based on the number of labs offered to you.

Come prepared when we meet again! By next time, you should a) follow the dress code, b) have your goggles or safety glasses, c) be prepared for your first quiz, d) bring your carbon copy lab note book, e) bring your lab text book (Williamson's), f) bring or remember your combination.

CHEMISTRY 233--Desk and Kit Checklist

Student Name (typed)_____

Student ID _____

Section # _____ Room # _____ Desk # _____ Combination ____-____-____

All replacement parts for the drawer are found in Room 122.

Item	Quantity
Beaker, 250 ml	1
Beaker, 100 ml	2
Beaker, 50 ml	2
Cork, fits 50 mL E. flask	2
Flask, Erlenmeyer, 50 ml	2
Organic Kit*	1
Stirring rod, 6 inch	1
Test Tubes, 15 x 125 mm (or multiple sizes)	8
Thermometer	1

Organic Kit*: Consult page 10 in the Organic Lab textbook (Williamson) for a listing of the equipment. All replacement parts for the kit are found in Room 240A.

Shared equipment:

1	Hot plate
1	Heating block
1	Rod
1	90° clamp
3	Three prong clamps
1	Ring clamp
1	Lab jack
1	Plastic bowl
1	Test tube rack

SAFETY AGREEMENT

I, _____ (Print Name), have read, understand, and agree to the laboratory Safety Rules. I, therefore, release the Department of Chemistry at ULM and my instructor from any responsibility for accidents occurring while not following those rules.

_____ Signed _____ Dated